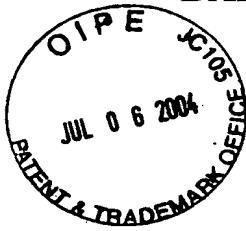


BARNES & THORNBURG



ZFW

11 South Meridian Street
Indianapolis, Indiana 46204
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group: 1624

Confirmation No.: 8656

Application No.: 10/630,574

Invention: CHIRAL NANOTUBES

Applicant: Hicham Fenniri

Filed: July 30, 2003

Attorney
Docket: 3220-72893

Examiner: Unknown

Certificate Under 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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Karla I. Mays

(Signature)

Karla I. Mays

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INFORMATION DISCLOSURE STATEMENT

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Alexandria, VA 22313-1450

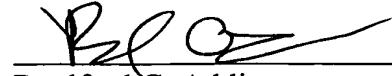
Sir:

This statement is filed in the application identified above pursuant to 37 C.F.R. § 1.56. No representation is intended that a complete search has been made of the prior art or that no better art references than listed below are available. A copy of each reference is provided for review by the Examiner. The filing of this Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in §1.56(b).

Please charge any fees that might be due in connection with this Information Disclosure Statement to our Deposit Account No. 10-0435. An extra copy of this Information Disclosure Statement is enclosed for that purpose.

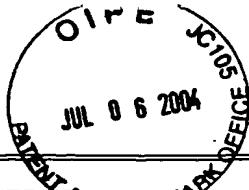
Respectfully submitted,

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Bradford G. Addison
Attorney Reg. No. 41,486

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(317) 231-7253



Sheet 1 of 10

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT		ATTY. DOCKET NO. 3220-72893	SERIAL NO. 10/630,574
		APPLICANT Hicham Fenniri	
		FILING DATE July 30, 2003	GROUP 1624

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AR	Thomas C. Marsh et al., "A new DNA nanostructure, the G-wire, imaged by scanning probe microscopy", <i>Oxford Journals Online, Nucleic Acids Research</i> , Vol. 23, Issue 4, pg. 696 (Copyright © 1995 by Oxford University Press)
AS	George M. Whitesides et al., "Noncovalent Synthesis: Using Physical-Organic Chemistry To Make Aggregates", <i>Acc. Chem. Res.</i> , Vol. 28, No. 1, 1995, pgs. 37-44
AT	Sergei V. Kolotuchin et al., "Self-Assembly Mediated by the Donor-Donor-Acceptor-Acceptor-Acceptor-Donor (DDA•AAD) Hydrogen-Bonding Motif: Formation of a Robust Hexameric Aggregate", <i>J. Am. Chem. Soc.</i> , Vol. 120, No. 35, 1998, pgs. 9092-9093
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AV	Scott L. Forman et al., "Toward Artificial Ion Channels: A Lipophilic G-Quadruplex", <i>J. Am. Chem. Soc.</i> , Vol. 122, No. 17, 2000, pgs. 4060-4067
AW	Giovanni Gottarelli et al., "The Self-Recognition and Self-Assembly of Folic Acid Salts in Isotropic Water Solution", <i>Helvetica Chimica Acta</i> , Vol. 79 (1996), pgs. 220-234
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AY	Nobuo-Kimizuka et al., "Mesoscopic Supramolecular Assembly of a 'Janus' Molecule and a Melamine Derivative via Complementary Hydrogen Bonds", <i>J. Chem. Soc., Chem. Commun.</i> , 1995, pgs. 2103-2104
AZ	Toyoko Imae et al., "Formation of Fibrous Molecular Assemblies by Amino Acid Surfactants in Water", <i>J. Am. Chem. Soc.</i> , Vol. 114, No. 9, 1992, pgs. 3414-3419

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BR	David A. Frankel et al., "Supramolecular Assemblies of Diacetylenic Aldonamides", <i>J. Am. Chem. Soc.</i> , Vol. 116, No. 22, 1994, pgs. 10057-10069
BS	Jürgen-Hinrich Fuhrhop et al., "Molecular Monolayer Rods and Tubules Made of α -(L-Lysine), ω -(Amino) Bolaamphiphiles", <i>J. Am. Chem. Soc.</i> , Vol. 115, No. 4, 1993, pgs. 1600-1601
BT	Joel M. Schnur, "Lipid Tubules: A Paradigm for Molecularly Engineered Structures", <i>Science</i> , Vol. 262, 1993, pgs. 1669-1676
BU	Naotoshi Nakashima et al., "Optical Microscopic Study of Helical Superstructures of Chiral Bilayer Membranes", <i>J. Am. Chem. Soc.</i> , Vol. 107, 1985, pgs. 509-510
BV	Jacque H. Georger et al., "Helical and Tubular Microstructures Formed by Polymerizable Phosphatidylcholines", <i>J. Am. Chem. Soc.</i> , Vol. 109, No. 20, 1987, pgs. 6169-6175
BW	Nasreen G. Chopra et al., "Boron Nitride Nanotubes", <i>Science</i> , Vol. 269, 1995, pgs. 966-967
BX	Tomoko Kasuga et al., "Formation of Titanium Oxide Nanotube", <i>Langmuir</i> , Vol. 14, No. 12, 1998, pgs. 3160-3163
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CR	Ewan J. M. Hamilton et al., "Preparation of Amorphous Boron Nitride and Its Conversion to a Turbostratic, Tubular Form", <i>Science</i> , Vol. 260, 1993, pgs. 659-661
CS	Sumio Iijima, "Helical microtubules of graphitic carbon", <i>Nature</i> , Vol. 354, 1991, pgs. 56-58
CT	Maarten F. M. Roks et al., "Biomimetic Macromolecular Chemistry: Design and Synthesis of an Artificial Ion Channel Based on a Polymer Containing Cofacially Stacked Crown Ether Rings. Incorporation in Dihexadecyl Phosphate Vesicles and Study of Cobalt Ion Transport", <i>Macromolecules</i> , Vol. 25, No. 20, 1992, pgs. 5398-5407
CU	Akira Harada et al., "Synthesis of a tubular polymer from threaded cyclodextrins", <i>Nature</i> , Vol. 364, 1993, pgs. 516-518
CV	Naomi Sakai et al., "Transmembrane B-DNA", <i>Short Communications, Chembiochem</i> , No. 2, 2000, pgs. 123-125
CW	Peter R. Ashton et al., "Synthetic Cyclic Oligosaccharides—Syntheses and Structural Properties of a Cyclo[1→4]- α -L-rhamonopyranosyl-[1→4]- α -D-mannopyranosyl]trioside and -tetraose***", <i>Chem. Eur. J.</i> , Vol. 2, No. 5, 1996, pgs. 580-591
CX	James C. Nelson et al., "Solvophobically Driven Folding of Nonbiological Oligomers", <i>Science</i> , Vol. 277, 1997, pgs. 1793-1796
CY	M. Reza Ghadiri et al., "Self-assembling organic nanotubes based on a cyclic peptide architecture", <i>Nature</i> , Vol. 366, 1993, pgs. 324-327
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DR	Andrew Marsh et al., "Self-complementary hydrogen bonding heterocycles designed for the enforced self-assembly into supramolecular macrocycles", <i>Chem. Commun.</i> , 1996, pgs. 1527-1528
DS	Thierry Verbiest et al., "Strong Enhancement of Nonlinear Optical Properties Through Supramolecular Chirality", <i>Science</i> , Vol. 282, Issue 5390, 1998, 7 pgs.
DT	Hicham Fenniri et al., "Helical Rosette Nanotubes: Design, Self-Assembly, and Characterization", <i>J. Am. Chem. Soc.</i> , Vol. 123, No. 16, 2001, pgs. 3854-3855
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DX	Sumio Iijima, "Helical microtubules of graphitic carbon", <i>Nature</i> , Vol. 354, 1991, pgs. 56-58
DY	Ewan J. M. Hamilton et al., "Preparation of Amorphous Boron Nitride and Its Conversion to a Turbostratic, Tubular Form", <i>Science</i> , Vol. 260, 1993, pgs. 659-661
DZ	Charles J. Brumlik et al., "Template Synthesis of Metal Microtubules", <i>J. Am. Chem. Soc.</i> , Vol. 113, 1991, pgs. 3174-3175

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ER	Wayne Shenton et al., "Inorganic-Organic Nanotube Composites from Template Mineralization of Tobacco Mosaic Virus", <i>Adv. Mater.</i> , Vol. 11, No. 3, 1999, pgs. 253-256
ES	Nasreen Chopra et al., "Boron Nitride Nanotubes", <i>Science</i> , Vol. 269, 1995, pgs. 966-967
ET	Joel M. Schnur, "Lipid Tubules: A Paradigm for Molecularly Engineered Structures", <i>Science</i> , Vol. 262, 1993, pgs. 1669-1676
EU	Naotoshi Nakashima et al., "Optical Microscopic Study of Helical Superstructures of Chiral Bilayer Membranes", <i>J. Am. Chem. Soc.</i> , Vol. 107, 1985, pgs. 509-510
EV	Jürgen-Hinrich Fuhrhop et al., "Molecular Monolayer Rods and Tubules Made of α -(L-Lysine), ω -(Amino) Bolaamphiphiles", <i>J. Am. Chem. Soc.</i> , Vol. 115, No. 4, 1993, pgs. 1600-1601
EW	Kunihiro Ichimura, "Photoalignment of Liquid-Crystal Systems", <i>Chem. Rev.</i> , Vol. 100, No. 5, 2000, pgs. 1847-1873
EX	Toyoko Imae et al., "Formation of Fibrous Molecular Assemblies by Amino Acid Surfactants in Water", <i>J. Am. Chem. Soc.</i> , Vol. 114, No. 9, 1992, pgs. 3414-3419
EY	Nobuo Kimizuka et al., "Mesoscopic Supramolecular Assembly of a 'Janus' Molecule and a Melamine Derivative via Complementary Hydrogen Bonds", <i>J. Chem. Soc., Chem. Commun.</i> , 1995, pgs. 2103-2104
EZ	Ben L. Feringa et al., "Chiroptical Molecular Switches", <i>Adv. Mat.</i> , Vol. 8, No. 8, 1996, pgs. 681-684

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	GS	J. H. K. Ky Hirschberg et al., "Helical self-assembled polymers from cooperative stacking of hydrogen-bonded pairs", <i>Nature</i> , Vol. 407, 2000, pgs. 167-170
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	GX	Mark Mascal et al., "The G-C DNA Base Hybrid: Synthesis, Self-Organization and Structural Analysis", <i>J. Org. Chem.</i> , Vol. 64, No. 23, 1999, pgs. 8479-8484
	GY	Stephen L. Mayo et al., "DREIDING: A Generic Force Field for Molecular Simulations", <i>J. Phys. Chem.</i> , Vol. 94, No. 26, 1990, pgs. 8897-8909
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HR	Martin Gellert et al., "Helix Formation by Guanylic Acid", <i>Proc. Natl. Acad Sci USA</i> , Vol. 48, No. 12, 1962, pgs. 2013-2018
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HW	Michel Gallant et al., "Use of Hydrogen Bonds to Control Molecular Aggregation. Association of Dipyridones Joined by Flexible Spacers", <i>J. Org. Chem.</i> , Vol. 56, No. 7, 1991, pgs. 2284-2286
HX	Jonathan A. Zerkowski et al., "Solid-State Structures of "Rosette" and "Crinkled Tape" Motifs Derived from the Cyanuric Acid-Melamine Lattice", <i>J. Am. Chem. Soc.</i> , Vol. 114, No. 13, 1992, pgs. 5473-5475
HY	Steven C. Zimmerman et al., "Controlled Molecular Aggregation. 1. Cyclic Trimerization via Hydrogen Bonding", <i>J. Org. Chem.</i> , Vol. 57, No. 8, 1992, pgs. 2215-2217
HZ	Stefania Bonazzi et al., "Self-Assembly and Liquid Crystal Formation of Folic Acid Salts", <i>Angew. Chem. Int. Ed. Engl.</i> , Vol. 32, No. 2, 1993, pgs. 248-250

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609.

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U.S. PATENT DOCUMENTS

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	JA						
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	JI						
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FOREIGN PATENT DOCUMENTS

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